

IP re-addressing

Event Description

IP re-addressing is a component of the server transformation effort that will transition servers from multiple legacy networks to being managed on a single, reliable, and scalable network infrastructure. The IP re-addressing effort will collect application data on server addresses, analyze the data to create IP re-addressing plans, and change IP addresses to move servers from their current network to a new single network. The new network will provide increased security, automated monitoring, and reduced complexity to maintain and operate the Commonwealth's IT infrastructure.

Benefits

- ▶ **Effectively manage application environments:** Agencies will be provided the dependency maps of their environment from the data collection efforts. These maps can be used to document and manage your application environment and show the relationships and interdependencies between applications. The maps will also facilitate common understanding of infrastructure applications and their impact to agency operations to improve our ability to prioritize and manage critical services
- ▶ **Enables the full benefits of server transformation:** Relocation of servers to a single, secure location where they can be centrally monitored and maintained. This will provide increased security and reduce the complexity to maintain and operate the Commonwealth's IT infrastructure
- ▶ **Provides improved understanding:** Allows service delivery and support teams to better understand infrastructure dependencies, allocate resources, and improve focus on critical infrastructure components

Data Collection

The IP re-addressing project is dependent on fully understanding the existing server and customer application environments, their associated relationships and dependencies. A data collection effort is required to build this understanding.

- ▶ Data collection effort will focus on application dependencies: Hard coded network references and addresses, internal/external servers and client/server relationships
- ▶ Data will be used to:
 - Plan and develop IP re-addressing schedule
 - Create dependency maps between systems
 - Promote a common understanding between VITA and agencies regarding application dependencies when planning upgrades and changes to the environment
 - Assist in moving servers to the new MPLS network

Data will be collected through **data collection tools** and a **tailored survey questionnaire**. These two methods will create an application dependency map of the server environment. The tailored survey questionnaire will be used to collect the data acquired by the data collection tools. The survey will be validated by agency resources to ensure the data is correct and to fill in gaps where necessary.

Agency Resource Time and Service Interruptions

Every effort will be made to minimize agency resource time and service interruptions. The IT Partnership team will work with agency resources to collect and then validate the data collected through the tools. Agency resources will also be asked to document comprehensive test cases of application functions, run test cases and provide test results. The IP re-addressing project team will work with the agencies to ensure that all resources are aware of their time commitments.

There will be no downtime required to configure the data collection tools. During the actual IP re-addressing process, the service interruptions will occur only at an Application level. All changes will be planned with agency approval and where possible, during maintenance windows.

Security

The data collection efforts will not collect any sensitive and proprietary data. The data collection tools utilized in the project will only collect network infrastructure information, including hosts, services, dependencies, usage, demand tables and URLs. Usernames, passwords, transaction details, or other sensitive data are not captured and stored.